



Jonathan Hammer

*Department of Microbial Interactions
Institute of Microbiology
Friedrich Schiller University Jena
Philosophenweg 12
D-07743 Jena*

*Phone: +49-3641-949342
E-Mail: jonathan.hammer@uni-jena.de*

Title PhD Project:

From microbiome to function: understanding how bacteria support the imbalance of algal blooms and how they restore order to the microverse

Main Research Interests

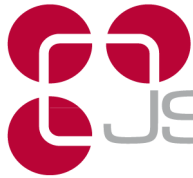
- Functional understanding of microbial communities
- Algal-bacterial interactions
- Microbial physiology

Methodological Experiences

- (Co-)cultivation of elusive microbes
- Whole genome and amplicon sequencing using the nanopore technology
- (Comparative) genomics and pangenomics
- Transcriptomics
- Molecular cloning

Curriculum Vitae

| | |
|-------------------|---|
| 10/2021 – present | Doctoral researcher Department of Microbial Interactions, Institute of Microbiology, Friedrich Schiller University Jena |
| 10/2021 – present | Holder of the “JSMC Promoting Talent” PhD fellowship funded by the Carl Zeiss Foundation |
| 07/2022 – 08/2022 | Visiting doctoral researcher in the Segev Lab Weizmann Institute of Science, Rehovot, Israel |
| 10/2020 – 03/2022 | Honours student Program to promote future researchers Friedrich Schiller University Jena |



| | |
|-------------------|---|
| 04/2018 – 09/2021 | Master of Science Biogeosciences (majoring in Microbiology) Friedrich Schiller University Jena |
| 10/2020 – 09/2021 | Scholarship holder of the Deutschlandstipendium |
| 07/2019 – 12/2019 | Research Assistant Aquatic Geomicrobiology, Institute of Biodiversity, Friedrich Schiller University Jena |
| 10/2014 – 03/2018 | Bachelor of Science Molecular Biotechnology Technische Universität Dresden |
| 10/2016 – 11/2017 | Participant in the international Genetically Engineered Machine (iGEM) student competition (Awarded with a Gold Medal) |
| 04/2016 – 07/2016 | Tutor for Biochemistry Technische Universität Dresden |

Publications

Non-peer-reviewed articles, conference abstracts, theses

- Hammer, J, Wegner, C.-E. and Schubert, T. (2022) Cobalamin (Vitamin B₁₂)-dependent methyl transfer – Filling a gap in the betaine catabolism of *Phaeobacter inhibens*. Programme of the Annual Conference of the Association for General and Applied Microbiology, S. 112
- Hammer, J (2021) Cobalt ions and algal osmolytes – Abiotic and biotic factors influencing the cobalamin production in the marine alphaproteobacterium *Phaeobacter inhibens*. Master's Thesis, Friedrich Schiller University Jena
- Hammer, J (2017) Communication between bacteria encapsulated in Peptidosomes: Investigating microbial interactions using the regulatory system for competence development in *Bacillus subtilis*. Bachelor's Thesis, Technische Universität Dresden